

72136

Name: AIW Frank  
LOG #: 1191

## ATSDR Record of Activity

ROUTIN

H. Emmett E. Skowronski  
R. Nickle A. Susten  
FILE

UID #: TXW6 Date: 12/17/91 Time: @1455 am    pm x

Site Name: @ AIW Frank City: @ West Whiteland Cnty: @ chester State: @PA

CERCLIS #: \_\_\_\_\_ Cost Recovery #: @302S Region: @ 3

Site Status	(1) <input checked="" type="checkbox"/> NPL	Non-NPL	RCRA	Non-Site specific	Federal
	(2) <input type="checkbox"/> Emergency Response	<input type="checkbox"/> Remedial	<input type="checkbox"/> Other:		

Activities					
<input type="checkbox"/> Incoming Call	<input type="checkbox"/> Public Meeting	<input checked="" type="checkbox"/> Health Consult			Site Visit
<input type="checkbox"/> Outgoing Call	<input type="checkbox"/> Other Meeting	<input type="checkbox"/> Health Referral			Info Provided
<input checked="" type="checkbox"/> Conference Call	<input type="checkbox"/> Data Review	<input type="checkbox"/> Written Response			Training
<input type="checkbox"/> Incoming Mail	<input type="checkbox"/> Other				

Requestor and Affiliation: (1) @ Kevin Koob, EPA OSC

Phone: @ Address: @ EPA Region III  
City: @ Philadelphia State: @PA Zip Code: @ 19107

### Contacts and Affiliation

<u>(31 Charles Walters</u>	<u>(31 Richard Nickle</u>
<u>(31 Jack Kelly</u>	<u>(31 Timothy Walker</u>

1-EPA	2-USCG	3-OTHER FED	4-STATE ENV	5-STATE HLT
6-COUNTY HLTH	7-CITY HLTH	8-HOSPITAL	9-LAW ENFORCE	10-FIRE DEPT
11-POISON CTR	12-PRIV CITZ	13-OTHER	14-UNKNOWN	15-DOD
16-DOE	17-NOAA	18-OTHR STATE	19-OTHR COUNTY	20-OTHR CITY
21-INTL	22-CITZ GROUP	23-ELECT. OFF	24-PRIV. CO	25-NEWS MEDIA
26-ARMY	27-NAVY	28-AIR FORCE	29-DEF LOG AGCY	30-NRC
31-ATSDR				

### Program Areas

<input type="checkbox"/> Health Assessment	<input type="checkbox"/> Health Studies	<input type="checkbox"/> Tox Info-profile	<input type="checkbox"/> Worker Hlth
<input type="checkbox"/> Petition Assessment	<input type="checkbox"/> Health Surveilnc	<input type="checkbox"/> Tox Info-Nonprofil	<input type="checkbox"/> Admin
<input type="checkbox"/> Emergency Response	<input type="checkbox"/> Disease Registry	<input type="checkbox"/> Subst-Spec Resch	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Health Consultation	<input type="checkbox"/> Exposr Registry	<input type="checkbox"/> Health Education	

### Narrative Summary:

At 1455, a conference call was held with the EPA OSC of the AIW Frank site in West Whiteland Township, PA. and representatives from ATSDR. The EPA had residential well water data showing elevated levels of volatile organic compounds (VOCs). The length of time in which the residents ha

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been exposed to the VOCs in the water is not known, but may be as long as 5 years. It may be an additional 2 years before remedial action takes place. The EPA requested that we comment on the potential health threats posed by these levels and make recommendations.

The VOCs detected in the wells at levels of concern included methylene chloride, chloromethane, 1,1-dichloroethene, 1,1,1-trichloroethane, and trichloroethene. Of the 15 wells sampled, the highest levels occurred in well S-11 where trichloroethene (TCE) was detected at 48 parts per billion (ppb). Chloromethane (14 ppb), 1,1-dichloroethene (DCE) (7.4 ppb), and 1,1,1-trichloroethane (23 ppb) were also detected in well S-11 (see attached). None of the other wells had significant concentrations of VOCs. The level of TCE is almost ten times the maximum contaminant level (MCL) standard for drinking water.

Available toxicological and epidemiological data do not indicate any short term or chronic (non-cancerous) health effects from the levels of VOC contamination detected in the well S-11. However, there is concern that the long term ingestion (life-time) of TCE and DCE may pose an increased risk of developing cancer. These concerns are based on the results of animal studies. Additional exposure to VOCs at levels approximate to that of ingestion may also occur through the inhalation of vapors that have resulted from non-potable domestic uses (e.g. showers, dishwashing).

#### Conclusions:

1. With the exception of well S-11, levels of contamination detected in the wells do not represent an acute or long term health threat.
2. Consumption of water from well S-11 poses an increased risk of developing cancer. Non-cancerous health effects would not be expected to occur from use of the water.

#### Action Required/Recommendations/Info Provided:

1. Water in private well S-11 should not be consumed. Other non-potable domestic uses for an interim period prior to remediation is likely not to result in significant health effects.
2. Well water in other private wells can be used for all domestic purposes.
3. Monitoring of all wells for VOCs should continue.

Signature: Timothy Walker  Date: 12/29/91

Concurrence: Allan S. Suter Date: 1/9/92

Attachment: Yes (x) No ( ); MIS entered: Yes (x) No ( )

Name: AIW Frank  
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cc: E. Skowronski  
ATSDR Region  
State HA Coop. Coord.

DEC-17-1991 10:20

FROM EPA

TO 82360655

4005 00t  
P.007/027

PPB

**SUMMARY OF ANALYTICAL DATA FOR AIW FRANK  
VOLATILE ORGANIC COMPOUNDS**

SAMPLE NUMBER	S-1	S-2	S-3	S-4	S-5	S-6	S-7	DIT
COMPOUND								
Chloromethane	1U	1U	1U	1U	1U	1U	1U	1U
Bromomethane	1U	1U	1U	1U	1U	1U	1U	1U
Vinyl Chloride	1U	1U	1U	1U	1U	1U	1U	1U
Chloroethane	23J	20J	18J	19J	5.4J	16J	17J	1U
Methylene Chloride	1U	0.64U	1.4U	1.5U	2.2	1.4U	1.3U	1.5U
Acetone	1U	1U	1U	1U	1U	1U	1U	1U
Carbon Disulfide	1U	1U	1U	1U	1U	1U	1U	1U
1,1-Dichloroethane	1U	1U	1U	6.5J	1U	1U	1U	1U
1,1-Dichloroethane	1U	1U	1U	1U	1U	1U	1U	1U
1,2-Dichloroethane	1U	1U	1U	1U	1U	1U	1U	1U
Chloroform	0.39J	1U	1U	0.82J	1U	1U	1U	1U
1,2-Dichloroethane	1U	1U	1U	1U	1U	1U	1U	1U
2-Butanone	1U	1U	1U	1U	1U	1U	1U	1U
1,1,1-Trichloroethane	0.95J	1U	1U	10J	1.4J	1U	1U	1U
Carbon Tetrachloride	1U	1U	1U	1U	1U	1U	1U	1U
Vinyl Acetate	1U	1U	1U	1U	1U	1U	1U	1U
Bromodichloromethane	1U	1U	1U	1U	1U	1U	1U	1U
1,2-Dichloropropane	1U	1U	1U	1U	1U	1U	1U	1U
cis-1,2-Dichloropropane	1U	1U	1U	1U	1U	1U	1U	1U
Trichloroethene	1U	1.2	0.36J	14	1U	0.40J	0.46J	1U
Dibromochloromethane	0.62J	1U	0.48J	1U	1U	1U	1U	1U
1,1,2-Trichloroethane	1U	1U	1U	1U	1U	1U	1U	1U
Benzene	1U	1U	1U	1U	1U	1U	1U	1U
trans-1,3-Dichloropropene	1U	1U	1U	1U	1U	1U	1U	1U
Bromoform	0.42J	1U	0.78J	1U	1U	1U	1U	1U
4-Methyl-2-pentanone	1U	1U	1U	1U	1U	1U	1U	1U
2-Hexanone	1U	1U	1U	1U	1U	1U	1U	1U
Tetrachloroethene	1U	1U	1U	0.65J	1U	1U	1U	1U
1,1,2,2-Tetrachloroethene	1U	1U	1U	1U	1U	1U	1U	1U
Toluene	1U	1U	1U	1U	1U	1U	1U	1U
Chlorobenzene	1U	1U	1U	1U	1U	1U	1U	1U
Ethylbenzene	1U	1U	1U	1U	1U	1U	1U	1U
Styrene	1U	1U	1U	1U	1U	1U	1U	1U
Xylene (total)	1U	1U	1U	1U	1U	1U	1U	1U

(U) Not detected (L) Limited (R) Rejection (N) Not

(J) Approximate value

AR300971

01 09 92 16:59  
DEC-17-1991 10:19

404 639 0655  
EPM EPO

EMR

TO 82360655

- 3006 006

**SUMMARY OF ANALYTICAL DATA FOR AIW FRANK  
VOLATILE ORGANIC COMPOUNDS**

SAMPLE NUMBER	S-3	S-3	S-10	S-11	S-12	S-13	S-14
COMPOUND							
Chloromethane	1U	1U	1U	1U	1U	1U	1U
Bromomethane	1U	1U	1U	1U	1U	1U	1U
Vinyl Chloride	1U	1U	1U	1U	1U	1U	1U
Chloroethane	19J	17J	9.5J	14J	19J	11J	13J
Methylene Chloride	0.92U	1.1U	0.73J	1.1	0.76J	1U	1.1U
Acetone	1U	1U	1U	1U	1U	1U	1U
Carbon Disulfide	1U	1U	1U	1U	1U	1U	1U
1,1-Dichloroethene	1U	1U	1U	7.4J	1.3J	1U	1.3J
1,1-Dichloroethane	1U	1U	1U	1U	1U	1U	1U
1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U
Chloroform	0.80J	1U	1U	1U	1U	1U	1U
1,2-Dichloroethane	1U	1U	1U	1U	1U	1U	1U
2-Butanone	1U	1U	1U	1U	1U	1U	1U
1,1,1-Trichloroethane	1U	1U	1U	23J	3.9J	1.1J	6.3J
Carbon Tetrachloride	1U	1U	1U	1U	1U	1U	1U
Vinyl Acetate	1U	1U	1U	1U	1U	1U	1U
Bromodichloromethane	1U	1U	1U	1U	1U	1U	1U
1,2-Dichloropropane	1U	1U	1U	1U	1U	1U	1U
cis-1,2-Dichloropropene	1U	1U	1U	1U	1U	1U	1U
Trichloroethene	0.50J	0.41J	0.26J	48	11	1.6	12
Dibromochloromethane	1U	1U	1U	1U	1U	1U	1U
1,1,2-Trichloroethane	1U	1U	1U	1U	1U	1U	1U
Benzene	1U	1U	1U	1U	1U	1U	1U
trans-1,3-Dichloropropene	1U	1U	1U	1U	1U	1U	1U
Bromoform	1U	1U	1U	1U	1U	1U	1U
4-Methyl-2-pentanone	1U	1U	1U	1U	1U	1U	1U
2-Hexanone	1U	1U	1U	1U	1U	1U	1U
Tetrachloroethene	1U	1U	1U	1.1J	1U	1U	1U
1,1,2,2-Tetrachloroethane	1U	1U	1U	1U	1U	1U	1U
Toluene	1U	1U	1U	1U	1U	1U	1U
Chlorobenzene	1U	1U	1U	1U	1U	1U	1U
Ethylbenzene	1U	1U	1U	1U	1U	1U	1U
Styrene	1U	1U	1U	1U	1U	1U	1U
Xylene (total)	1U	1U	1U	1U	1U	1U	1U

U.S. GOVERNMENT PRINTING OFFICE: 1914 - 16-1250